

In the Claims

The status of claims in the case is as follows:

1 1. [Currently amended] Method for processing a client
2 session request received at a server, comprising the steps
3 of:

4 negotiating environment parameters for establishing a
5 connection-oriented connection of said server with said
6 client, said client and said server communicating over
7 said connection using a same client/server
8 communications protocol, said client including a
9 graphical user interface selectively assigned a session
10 name enabling client emulator communication at an
11 application layer with said server;

12 said server inviting said client to submit user
13 variables;

14 responsive to receiving a user variable requesting a
15 custom confirmation record received at said server from
16 said client, said server sending to said client a

17 confirmation record and custom record data for enabling
18 said client to engage in subsequent programmable
19 negotiations directly with said server.

1 2. [Original] The method of claim 1, said negotiating,
2 inviting, and sending steps executing within the application
3 layer of a TCP/IP protocol stack.

1 3. [Original] The method of claim 1, further
2 comprising the step responsive to a user variable requesting
3 a confirmation record, sending to said client a confirmation
4 record without said custom record data.

1 4. [Original] The method of claim 1, said confirmation
2 record including a field defining a pass through data
3 length, said pass through data including said confirmation
4 record and said custom record data.

1 5. [Original] The method of claim 1, further
2 comprising the step of appending said custom record data to
3 said confirmation record.

1 6. [Original] The method of claim a1, said request
2 being for a default custom confirmation record, and further

3 comprising the step of sending to said client default data
4 in said custom record data.

1 7. [Original] The method of claim 1, said request
2 being for a defined custom confirmation record, said request
3 including a list of one or more predefined information
4 items, further comprising the step of sending to said client
5 defined data in said custom record data.

1 8. [Original] The method of claim 7, said sending step
2 including executing a customer defined exit program on said
3 list to generate said defined data.

1 9. [Original] The method of claim 4, further
2 comprising the step of providing in said custom record data
3 indicia identifying a device allocated by a host server.

1 10. [Original] The method of claim 4, further
2 comprising the step of providing in said custom record data
3 indicia identifying a terminal or printer device allocated
4 by a host server.

1 11. [Original] The method of claim 4, further
2 comprising the step of providing in said custom record data

3 indicia identifying an associated device linked to a current
4 session by a host.

1 12. [Original] The method of claim 4, further
2 comprising the step of providing in said custom record data
3 indicia identifying a physical location for receiving
4 output.

1 13. [Original] The method of claim 4, further
2 comprising the step of providing in said custom record data
3 indicia identifying system security level and password
4 encryption requirements.

1 14. [Original] The method of claim 4, further
2 comprising the step of providing in said custom record data
3 indicia identifying another device for retrying a rejected
4 request.

1 15. [Original] The method of claim 4, further
2 comprising the step of providing in said custom record data
3 indicia identifying a reason for a failed auto-signon
4 request.

1 16. [Original] The method of claim 4, further

2 comprising the step of providing in said custom record data
3 indicia identifying a reason for denial of session
4 connection request upon system overload and redirection to
5 an alternate time or host.

1 17. [Original] The method of claim 4, further
2 comprising the step of providing in said custom record data
3 indicia identifying custom information for interpretation by
4 said client.

1 18. [Currently amended] A client/server system, comprising:

2 a custom confirmation record;

3 a user exit program running on said server;

4 said client operating in conjunction with said user
5 exit program for requesting said custom confirmation
6 record from said server, and responsive thereto for
7 engaging in subsequent client/server negotiations; said
8 client and said server communicating over a connection-
9 oriented connection using a same client/server
10 communications protocol, said client including a
11 graphical user interface selectively assigned a session

12 name enabling client emulator communication at an
13 application layer with said server.

1 19. [Original] The system of claim 18, said client
2 being a Telnet client.

1 20. [Original] The system of claim 18, further
2 comprising:

3 said client being selectively operable for negotiating
4 a send-custom-confirmation-record with a 'yes', 'no' or
5 defined data value; and

6 said user exit interpret said data value and sending
7 default or defined information back to said client in
8 said custom confirmation record.

1 21. [Original] The system of claim 20, said custom
2 confirmation record containing diagnostic information
3 provided by said server along with custom information
4 provided by said user exit program.

1 22. [Original] The system of claim 21, said custom

information being provided by user exit programs executing
in said server and said client.

23. [Currently amended] A method for operating a client to
establish a network connection with a server, comprising the
steps of:

negotiating environment parameters for establishing a
connection-oriented connection with said server, said
client and said server communicating over said
connection using a same client/server communications
protocol, said client including a graphical user
interface selectively assigned a session name enabling
client emulator communication at an application layer
with said server;

said parameters including a request for said server to
provide a custom confirmation record; and

responsive to said request, receiving said confirmation
record at said client and engaging in subsequent
programmable negotiations directly with said server.

24. [Original] The method of claim 23, said custom

2 confirmation record including return code, system name,
3 device name and custom data.

1 25. [Original] The method of claim 24, further
2 comprising the steps of:

3 operating said server to request a custom information
4 record from said client.

1 26. [Original] The method of claim 25, said request
2 comprising an invitation to said client from said server to
3 respond with all environment variables.

1 27. [Original] The method of claim 26, said client
2 responding to said invitation by returning a custom
3 information record as part of said environment variables.

1 28. [Original] The method of claim 27, said client
2 responding to said invitation with a request that said
3 server return to said client a custom confirmation record.

1 29. [Original] The method of claim 28, further the
2 steps of

3 operating an exit program to interpret the value in
4 said custom information record to selectively return a
5 custom confirmation record response.

1 30. [Original] The method of claim 28, further
2 comprising the steps of specifying in said custom
3 confirmation record a list of custom fields to be returned
4 by said server.

1 31. [Original] The method of claim 28, further
2 comprising the steps of specifying in said custom
3 confirmation record unstructured data for subsequent parsing
4 and processing by said server, an exit program, or an
5 independent job.

1 32. [Currently amended] Method for operating a client to
2 establish a network connection with a server, comprising the
3 steps of:

4 negotiating environment parameters for establishing a
5 connection-oriented connection with said server, said
6 client and said server communicating over said
7 connection using a same client/server communications
8 protocol, said client including a graphical user

9 interface selectively assigned a session name enabling
10 client emulator communication at an application layer
11 with said server;

12 receiving from said server an invitation to submit user
13 variables;

14 responsive to sending to said server a user variable
15 requesting a custom confirmation record, receiving at
16 said client from said server a confirmation record and
17 custom record data for enabling said client to engage
18 in subsequent negotiations directly with said server.

1 33. [Original] The method of claim 32, said
2 negotiating, inviting, and sending steps executing within
3 the application layer of a TCP/IP protocol stack.

1 34. [Original] The method of claim 32, further
2 comprising the step responsive to said invitation to submit
3 user variables, requesting a confirmation record, and
4 responsive thereto receiving from said server a confirmation
5 record without said custom record data.

1 35. [Original] The method of claim 32, said

2 confirmation record including a field defining a pass
3 through data length, said pass through data including said
4 confirmation record and said custom record data.

1 36. [Original] The method of claim 32, further
2 comprising the step of receiving said custom record data
3 appended to said confirmation record.

1 37. [Original] The method of claim 32, said request
2 being for a default custom confirmation record, and further
3 comprising the step of receiving from said server, default
4 data in said custom record data.

1 38. [Original] The method of claim 32, said request
2 being for a defined custom confirmation record, said request
3 including a list of one or more predefined information
4 items, further comprising the step of receiving from said
5 server, client defined data in said custom record data.

1 39. [Original] The method of claim 38, further
2 including the step of providing to said server a customer
3 defined exit program for parsing said list to generate said
4 defined data.

1 40. [Original] The method of claim 35, further
2 comprising the step of receiving in said custom record data
3 indicia identifying a device allocated by a host server.

1 41. [Original] The method of claim 35, further
2 comprising the step of receiving in said custom record data
3 indicia identifying a terminal or printer device allocated
4 by a host server.

1 42. [Original] The method of claim 35, further
2 comprising the step of receiving in said custom record data
3 indicia identifying an associated device linked to a current
4 session by a host.

1 43. [Original] The method of claim 35, further
2 comprising the step of receiving in said custom record data
3 indicia identifying a physical location for receiving
4 output.

1 44. [Original] The method of claim 35, further
2 comprising the step of receiving in said custom record data
3 indicia identifying system security level and password
4 encryption requirements.

1 45. [Original] The method of claim 35, further
2 comprising the step of receiving in said custom record data
3 indicia identifying another device for retrying a rejected
4 request.

1 46. [Original] The method of claim 35, further
2 comprising the step of receiving in said custom record data
3 indicia identifying a reason for a failed auto-signon
4 request.

1 47. [Original] The method of claim 35, further
2 comprising the step of receiving in said custom record data
3 indicia identifying a reason for denial of session
4 connection request upon system overload and redirection to
5 an alternate time or host.

1 48. [Original] The method of claim 35, further
2 comprising the step of receiving in said custom record data
3 indicia identifying custom information for interpretation by
4 said client.

1 49. [Currently amended] A client system for establishing a
2 network connection with a server, comprising:

3 a first logic element for negotiating environment
4 parameters for establishing a connection-oriented
5 connection with said server;

6 said parameters including a request for said server to
7 provide a custom confirmation record to said client,
8 said client including a graphical user interface
9 selectively assigned a session name enabling client
10 emulator communication at an application layer with
11 said server; and

12 a second logic element responsive to said request, for
13 receiving said confirmation record for enabling said
14 client to engage in subsequent programmable
15 negotiations with said server, said client and said
16 server communicating over said connection using a same
17 client/server communications protocol.

1 50. [Original] The system of claim 49, said custom
2 confirmation record including return code, system name,
3 device name and custom data.

1 51. [Original] The system of claim 50, further
2 comprising:

3 a third logic element for operating said server to
4 request a custom information record from said client.

1 52. [Original] The system of claim 51, said request
2 comprising an invitation to said client from said server to
3 respond with all environment variables.

1 53. [Original] The system of claim 52, said client
2 further comprising a fourth logic element for responding to
3 said invitation by returning a custom information record as
4 part of said environment variables.

1 54. [Original] The system of claim 53, said client
2 further comprising a fifth logic element for responding to
3 said invitation with a request that said server return to
4 said client a custom confirmation record.

1 55. [Original] The system of claim 54, said server
2 further comprising an exit program for interpreting the
3 value in said custom information record to selectively
4 return a custom confirmation record response.

1 56. [Original] The system of claim 54, further
2 comprising a logic element for specifying a list of custom

fields to be returned by said server in said custom confirmation record.

57. [Original] The system of claim 54, further comprising a logic element for specifying in said custom confirmation record unstructured data for subsequent parsing and processing by said server, an exit program, or an independent job.

58. [Currently amended] System for processing a client session request, comprising:

a logic element for negotiating environment parameters for establishing a connection-oriented connection with said client and inviting said client to submit user variables, said client including a graphical user interface selectively assigned a session name enabling client emulator communication at an application layer with said server; and

an exit program responsive to receiving a user variable from said client requesting a custom confirmation record for sending to said client a confirmation record and custom record data for enabling said client to

14 engage in subsequent programmable negotiations directly
15 with ~~said server~~ a server, said client and said server
16 communicating over said connection using a same
17 client/server communications protocol.

1 59. [Original] The system of claim 58, further
2 comprising a TCP/IP protocol stack including within an
3 application layer said exit program generating said custom
4 record data.

1 60. [Original] The system of claim 58, said logic
2 element further operable responsive to a user variable
3 requesting a confirmation record for sending to said client
4 a confirmation record without said custom record data.

1 61. [Original] The system of claim 58, said
2 confirmation record including a field defining a pass
3 through data length, said pass through data including said
4 confirmation record and said custom record data.

1 62. [Original] The system of claim 58, said logic
2 element further operable for appending said custom record
3 data to said confirmation record.

1 63. [Currently amended] System for operating a client to
2 establish a network connection with a server, comprising:

3 a first logic element for negotiating environment
4 parameters for establishing a connection-oriented
5 connection with said server and for receiving from said
6 server an invitation to submit user variables, said
7 client and said server communicating over said
8 connection using a same client/server communications
9 protocol, said client including a graphical user
10 interface selectively assigned a session name enabling
11 client emulator communication at an application layer
12 with said server;

13 a second logic element responsive to sending to said
14 server a user variable requesting a custom confirmation
15 record for receiving from said server a confirmation
16 record and custom record data for enabling said client
17 to engage in subsequent programmable negotiations
18 directly with said server.

1 64. [Original] The system of claim 63, further
2 comprising a TCP/IP protocol stack including an application
3 layer within which said logic elements execute.

1 65. [Original] The system of claim 63, further
2 comprising the step responsive to said invitation to submit
3 user variables, requesting a confirmation record, and
4 responsive thereto receiving from said server a confirmation
5 record without said custom record data.

1 66. [Original] The system of claim 63, said
2 confirmation record including a field defining a pass
3 through data length, said pass through data including said
4 confirmation record and said custom record data.

1 67. [Original] The system of claim 63, said second
2 logic element further responsive for receiving said custom
3 record data appended to said confirmation record.

1 68. [Original] The system of claim 63, said request
2 being for a default custom confirmation record, and said
3 second logic element further operable for receiving from
4 said server default data in said custom record data.

1 69. [Original] The system of claim 63, said request
2 being for a defined custom confirmation record, said request
3 including a list of one or more predefined information

4 items, said second logic element further operable for
5 receiving from said server client defined data in said
6 custom record data.

1 70. [Original] The system of claim 69, further
2 including a logic element for providing to said server a
3 customer defined exit program for parsing said list to
4 generate said defined data.

1 71. [Currently amended] A program storage device readable
2 by a machine, tangibly embodying a program of instructions
3 executable by a machine to perform method steps for
4 processing a client session request received at a server,
5 said method steps comprising:

6 negotiating environment parameters for establishing a
7 connection-oriented connection with said client, said
8 client and said server communicating over said
9 connection using a same client/server communications
10 protocol, said client including a graphical user
11 interface selectively assigned a session name enabling
12 client emulator communication at an application layer
13 with said server;

14 inviting said client to submit user variables to said
15 server;

16 responsive to receiving at said server a user variable
17 requesting a custom confirmation record, sending to
18 said client a confirmation record and custom record
19 data enabling said client to engage in subsequent
20 programmable negotiations directly with said server.

1 72. [Original] The program storage device of claim 71,
2 said negotiating, inviting, and sending steps executing
3 within the application layer of a TCP/IP protocol stack.

1 73. [Original] The program storage device of claim 71,
2 said method steps further comprising, responsive to a user
3 variable requesting a confirmation record, sending to said
4 client a confirmation record without said custom record
5 data.

1 74. [Original] The program storage device of claim 71,
2 said confirmation record including a field defining a pass
3 through data length, said pass through data including said
4 confirmation record and said custom record data.

1 75. [Original] The program storage device of claim 71,
2 said method steps further comprising the step of appending
3 said custom record data to said confirmation record.

1 76. [Original] The program storage device of claim 71,
2 said request being for a default custom confirmation record,
3 and said method steps further comprising the step of sending
4 to said client default data in said custom record data.

1 77. [Original] The program storage device of claim 71,
2 said request being for a defined custom confirmation record,
3 said request including a list of one or more predefined
4 information items, and said method steps further comprising
5 the step of sending to said client defined data in said
6 custom record data.

1 78. [Original] The program storage device of claim 77,
2 said sending step including executing a customer defined
3 exit program on said list to generate said defined data.

1 79. [Original] The program storage device of claim 74,
2 said method steps further comprising the step of providing
3 in said custom record data indicia identifying a device
4 allocated by a host server.

1 80. [Original] The program storage device of claim 74,
2 said method steps further comprising the step of providing
3 in said custom record data indicia identifying a terminal or
4 printer device allocated by a host server.

1 81. [Original] The program storage device of claim 74,
2 said method steps further comprising the step of providing
3 in said custom record data indicia identifying an associated
4 device linked to a current session by a host.

1 82. [Original] The program storage device of claim 74,
2 said method steps further comprising the step of providing
3 in said custom record data indicia identifying a physical
4 location for receiving output.

1 83. [Original] The program storage device of claim 74,
2 said method steps further comprising the step of providing
3 in said custom record data indicia identifying system
4 security level and password encryption requirements.

1 84. [Original] The program storage device of claim 74,
2 said method steps further comprising the step of providing
3 in said custom record data indicia identifying another

4 device for retrying a rejected request.

1 85. [Original] The program storage device of claim 74,
2 said method steps further comprising the step of providing
3 in said custom record data indicia identifying a reason for
4 a failed auto-signon request.

1 86. [Original] The program storage device of claim 74,
2 said method steps further comprising the step of providing
3 in said custom record data indicia identifying a reason for
4 denial of session connection request upon system overload
5 and redirection to an alternate time or host.

1 87. [Original] The program storage device of claim 74,
2 said method steps further comprising the step of providing
3 in said custom record data indicia identifying custom
4 information for interpretation by said client.

1 88. [Currently amended] A program storage device readable
2 by a machine, tangibly embodying a program of instructions
3 executable by a machine to perform method steps for
4 operating a client to establish a network connection with a
5 server, said method steps comprising:

6 negotiating environment parameters for establishing a
7 connection-oriented connection of said client with said
8 server, said client including a graphical user
9 interface selectively assigned a session name enabling
10 client emulator communication at an application layer
11 with said server;

12 receiving at said client from said server an invitation
13 to submit user variables, said client and said server
14 communicating over said connection using a same
15 client/server communications protocol;

16 responsive to sending to said server a user variable
17 requesting a custom confirmation record, receiving at
18 said client from said server a confirmation record and
19 custom record data enabling said client to engage in
20 subsequent programmable negotiations directly with said
21 server.

1 89. [Original] The program storage device of claim 88,
2 said negotiating, inviting, and sending steps executing
3 within the application layer of a TCP/IP protocol stack.

1 90. [Original] The program storage device of claim 88,

2 said method steps further comprising the step, responsive to
3 said invitation to submit user variables, of requesting a
4 confirmation record, and responsive thereto receiving from
5 said server a confirmation record without said custom record
6 data.

1 91. [Original] The program storage device of claim 88,
2 said confirmation record including a field defining a pass
3 through data length, said pass through data including said
4 confirmation record and said custom record data.

1 92. [Original] The program storage device of claim 88,
2 said method steps further comprising the step of receiving
3 said custom record data appended to said confirmation
4 record.

1 93. [Original] The program storage device of claim 88,
2 said request being for a default custom confirmation record,
3 and said method steps further comprising the step of
4 receiving from said server default data in said custom
5 record data.

1 94. [Original] The program storage device of claim 88,
2 said request being for a defined custom confirmation record,

3 said request including a list of one or more predefined
4 information items, said method steps further comprising the
5 step of receiving from said server client defined data in
6 said custom record data.

1 95. [Original] The method of claim 94, further
2 including the step of providing to said server a customer
3 defined exit program for parsing said list to generate said
4 defined data.

1 96. [Original] The program storage device of claim 91,
2 said method steps further comprising the step of receiving
3 in said custom record data indicia identifying a device
4 allocated by a host server.

1 97. [Original] The program storage device of claim 91,
2 said method steps further comprising the step of receiving
3 in said custom record data indicia identifying a terminal or
4 printer device allocated by a host server.

1 98. [Original] The program storage device of claim 91,
2 said method steps further comprising the step of receiving
3 in said custom record data indicia identifying an associated
4 device linked to a current session by a host.

1 99. [Original] The program storage device of claim 91,
2 said method steps further comprising the step of receiving
3 in said custom record data indicia identifying a physical
4 location for receiving output.

1 100. [Original] The program storage device of claim 91,
2 said method steps further comprising the step of receiving
3 in said custom record data indicia identifying system
4 security level and password encryption requirements.

1 101. [Original] The program storage device of claim 91,
2 said method steps further comprising the step of receiving
3 in said custom record data indicia identifying another
4 device for retrying a rejected request.

1 102. [Original] The program storage device of claim 91,
2 said method steps further comprising the step of receiving
3 in said custom record data indicia identifying a reason for
4 a failed auto-signon request.

1 103. [Original] The program storage device of claim 91,
2 said method steps further comprising the step of receiving
3 in said custom record data indicia identifying a reason for

4 denial of session connection request upon system overload
5 and redirection to an alternate time or host.

1 104. [Original] The program storage device of claim 91,
2 said method steps further comprising the step of receiving
3 in said custom record data indicia identifying custom
4 information for interpretation by said client.

1 105. [Currently amended] A computer program product for
2 operating a server in a network comprising:

3 a tangible storage medium;

4 first program instructions for negotiating environment
5 parameters for establishing a connection-oriented
6 connection of said server with a client, said client
7 including a graphical user interface selectively
8 assigned a session name enabling client emulator
9 communication at an application layer with said server;

10 second program instructions for inviting said client to
11 submit user variables to said server, said client and
12 said server communicating over said connection using a
13 same client/server communications protocol;

14 third program instructions responsive to said server
15 receiving a user variable requesting a custom
16 confirmation record, for sending to said client a
17 confirmation record and custom record data enabling
18 said client to engage in subsequent programmable
19 negotiations directly with said server; and wherein

20 said first, second, and third program instructions are
21 recorded on said tangible storage medium.

1 106. [Currently amended] A computer program product for
2 operating a client in a network comprising:

3 a tangible program storage medium;

4 first program instructions for negotiating environment
5 parameters for establishing a connection-oriented
6 connection of said client with a server, said client
7 including a graphical user interface selectively
8 assigned a session name enabling client emulator
9 communication at an application layer with said server;

10 second program instructions for receiving from said
11 server at said client an invitation to submit user

12 variables, said client and said server communicating
13 over said connection using a same client/server
14 communications protocol;

15 third program instructions responsive to sending to
16 said server a user variable requesting a custom
17 confirmation record, for receiving at said client from
18 said server a confirmation record and custom record
19 data enabling said client to engage in subsequent
20 programmable negotiations directly with said server;
21 and wherein

22 said first, second, and third program instructions are
23 recorded on said tangible program storage medium.